09/697974

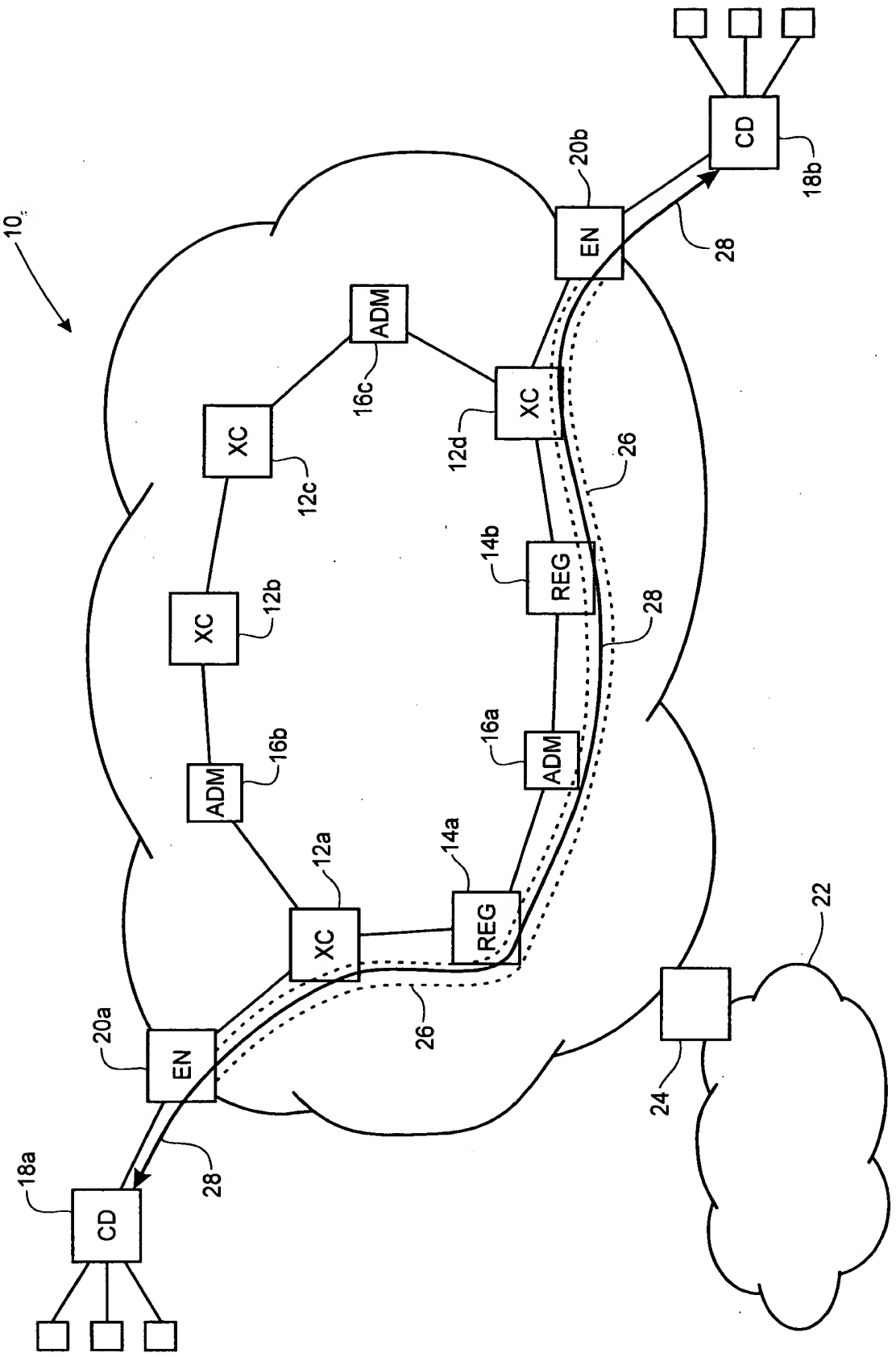


Figure 1

Figure 2

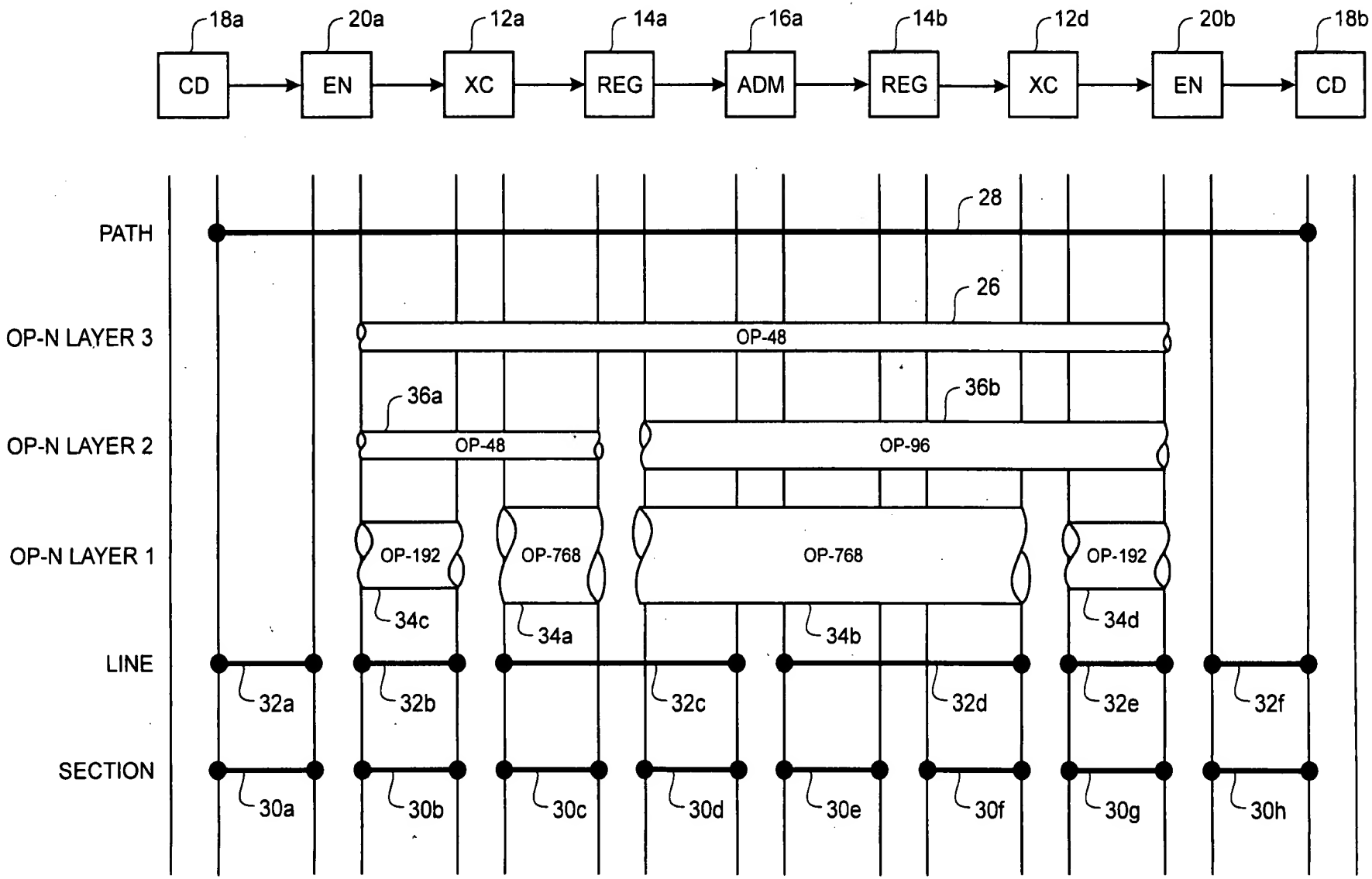

18a
20a
12a
14a
16a
14b
12d
20b
18b
CD
EN
XC
REG
ADM
REG
XC
EN
CD
PATH
28
OP-N LAYER 3
26
OP-48
OP-N LAYER 2
36a
36b
OP-48
OP-96
OP-N LAYER 1
OP-192
OP-768
OP-768
OP-192
34c
34a
34b
34d
LINE
32a
32b
32c
32d
32e
32f
SECTION
30a
30b
30c
30d
30e
30f
30g
30h

Figure 3

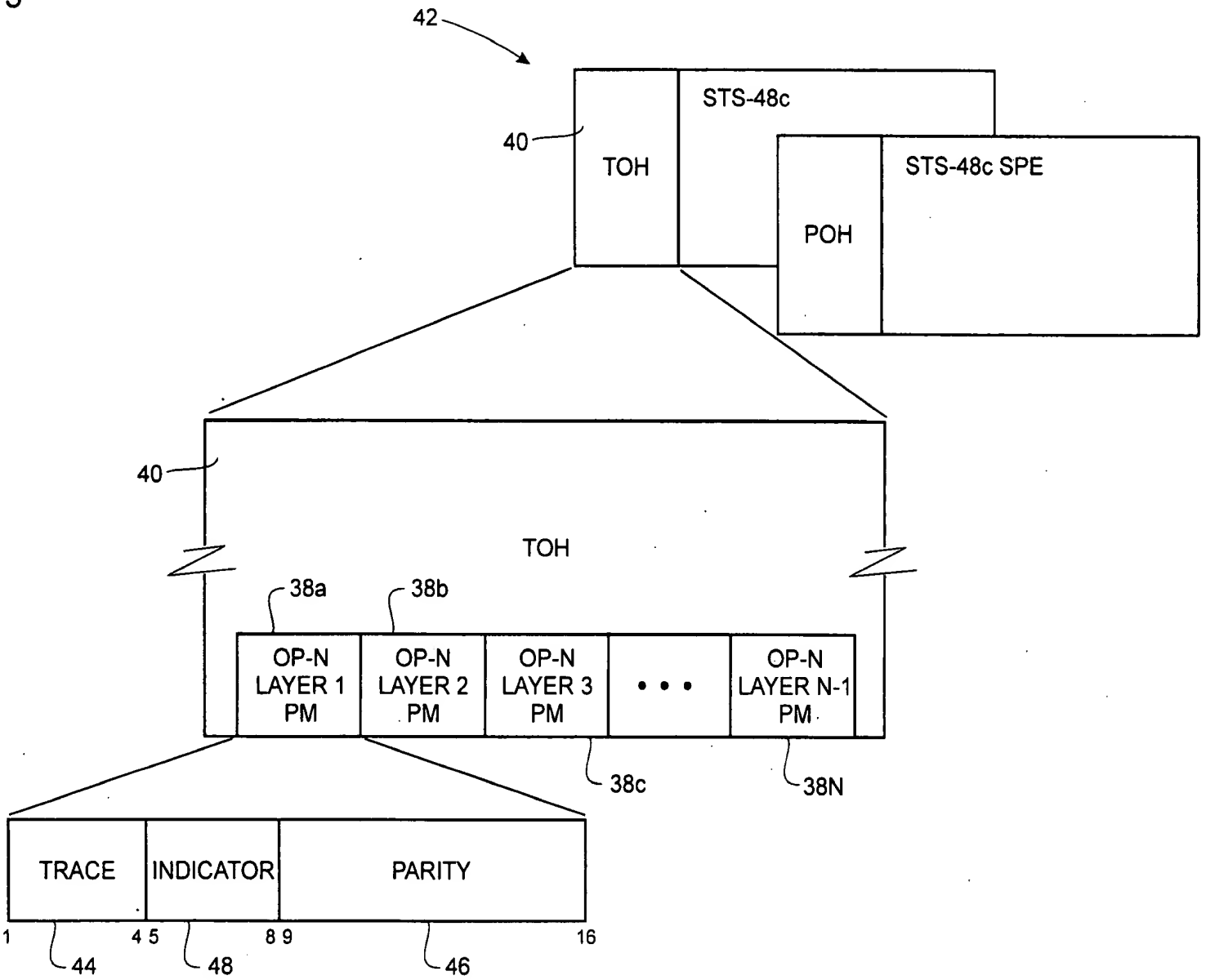

42
40
TOH
STS-48c
POH
STS-48c SPE
40
TOH
38a
38b
OP-N LAYER 1 PM
OP-N LAYER 2 PM
OP-N LAYER 3 PM
• • •
OP-N LAYER N-1 PM
38c
38N
TRACE
INDICATOR
PARITY
1
4 5
8 9
16
44
48
46

Figure 4

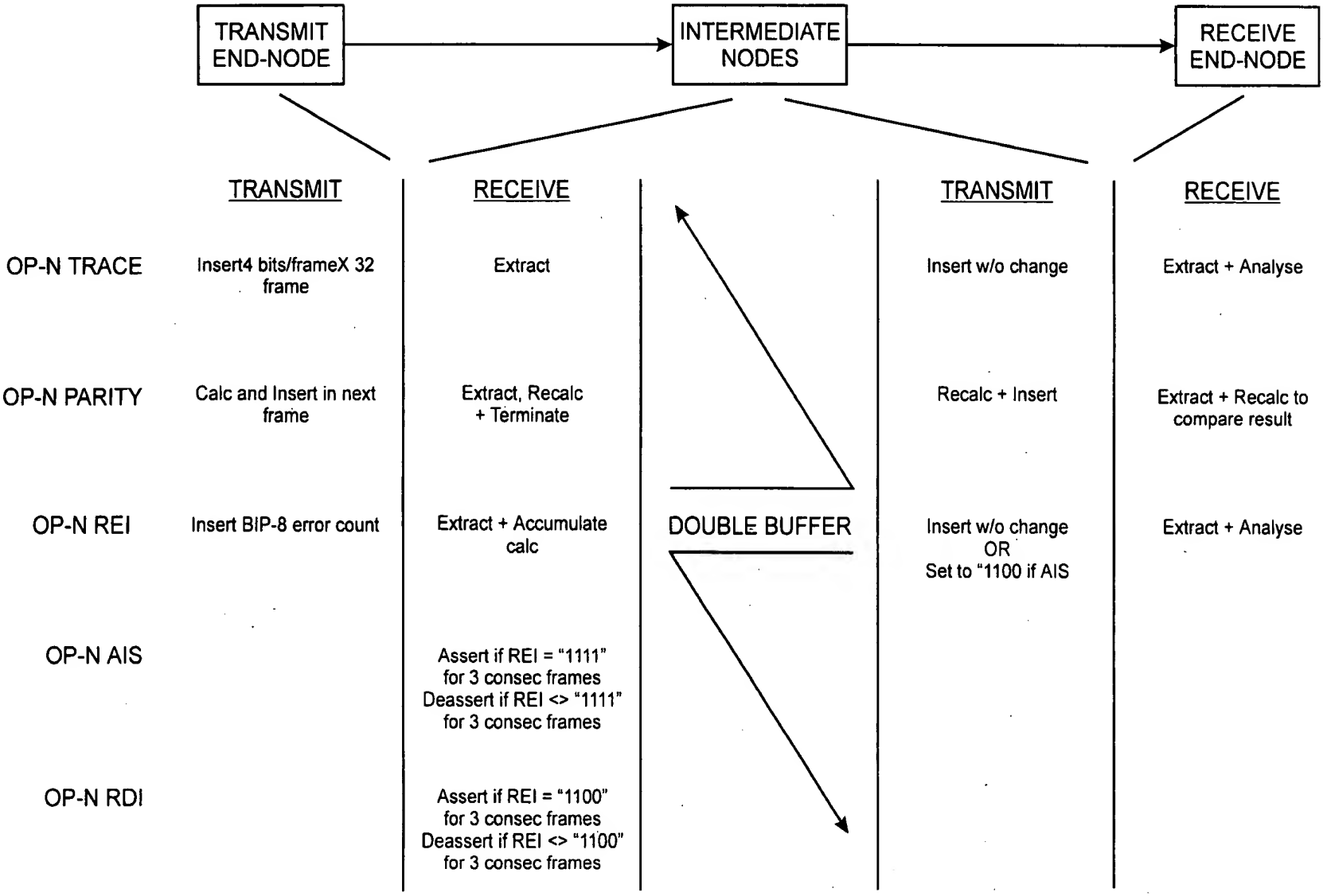
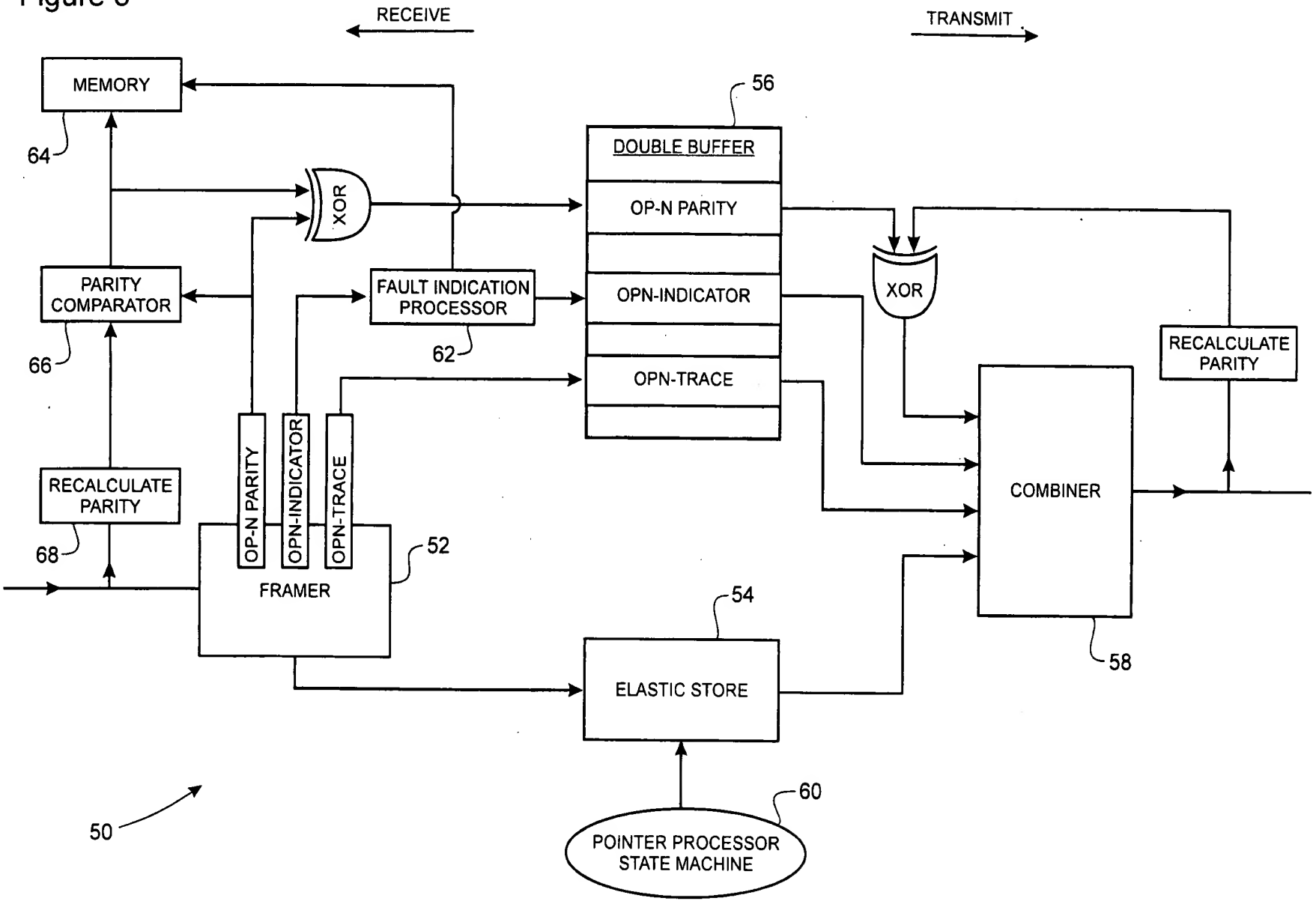

TRANSMIT END-NODE
INTERMEDIATE NODES
RECEIVE END-NODE
TRANSMIT
RECEIVE
TRANSMIT
RECEIVE
OP-N TRACE
Insert4 bits/frameX 32 frame
Extract
Insert w/o change
Extract + Analyse
OP-N PARITY
Calc and Insert in next frame
Extract, Recalc + Terminate
Recalc + Insert
Extract + Recalc to compare result
OP-N REI
Insert BIP-8 error count
Extract + Accumulate calc
DOUBLE BUFFER
Insert w/o change OR Set to "1100 if AIS
Extract + Analyse
OP-N AIS
Assert if REI = "1111" for 3 consec frames Deassert if REI <> "1111" for 3 consec frames
OP-N RDI
Assert if REI = "1100" for 3 consec frames Deassert if REI <> "1100" for 3 consec frames

Figure 5


RECEIVE
TRANSMIT
MEMORY
64
XOR
56
DOUBLE BUFFER
OP-N PARITY
OPN-INDICATOR
OPN-TRACE
XOR
PARITY COMPARATOR
66
FAULT INDICATION PROCESSOR
62
RECALCULATE PARITY
COMBINER
RECALCULATE PARITY
68
OP-N PARITY
OPN-INDICATOR
OPN-TRACE
FRAMER
52
54
ELASTIC STORE
58
60
POINTER PROCESSOR STATE MACHINE
50